



OWNER'S GUIDE

INSTALLATION GUIDE



# 17" (16:9) Overhead Video Monitor/DVD Player

MODEL OHDW17.2

# NON-TRANSFERABLE LIMITED ONE YEAR CONSUMER WARRANTY

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Directed Electronics (Directed) promises to the original purchaser that the new automotive video monitor and/or source unit(s) (the Product) that is purchased and installed from a Directed authorized dealer more than ninety (90) days after the purchase of a new vehicle are warranted for a period of one (1) year from date of purchase of the Product.

Directed promises to the original purchaser that all video accessories will be free from defects in materials and workmanship under normal use and condition for a period of ninety (90) days after the date of purchase. A sales receipt and/or warranty registration card is required to provide proof of date of purchase of the Product or accessories.

Should the Product be determined defective during the applicable warranty period, the defect(s) will be repaired or replaced with a new or reconditioned part(s), at Directed's option. To obtain warranty service, the Product must be returned to a Directed authorized dealer along with proof of purchase and installation.

Note: This warranty does not cover labor costs for the removal and reinstallation of the Product. IN ORDER FOR THIS WARRANTY TO BE VALID, YOUR PRODUCT MUST BE SHIPPED WITH PROOF OF PURCHASE AND INSTALLATION BY AN AUTHORIZED DIRECTED DEALER. ALL PRODUCTS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF DIRECTED DEALER INSTALLATION WILL BE DENIED.

This warranty is non-transferable and does not apply to any Product that has been modified or used in a manner contrary to its intended purpose, and does not cover damage to the Product caused by installation or removal of the Product. This warranty is VOID if the product has not been purchased from an authorized Directed dealer or has been damaged by accident or unreasonable use, negligence, acts of God, neglect, improper service or other causes not arising out of defect in materials or construction. This warranty does not cover the elimination of externally generated static or noise, or the correction of antenna problems or weak television reception, damage to tapes, video games, software, camcorders, discs, speakers, accessories or vehicle electrical systems, cosmetic damage or damage due to negligence, misuse, abuse, failure to follow operating instructions, accidental spills or customer applied cleaners, damage due to environmental causes such as floods, airborne fallout, chemicals, salt, hail, windstorms, lightning or extreme temperatures, damage due to accidents, road hazards, fire, theft, loss or vandalism, damage due to improper connection to equipment of another manufacturer, modification of existing equipment, damage caused by faulty media or the cleaning of components, or Product which has been opened or tampered with for any reason or which has been damaged due to alteration or service performed by anyone other than Directed Electronics.

**ALL WARRANTIES INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY ARE EXPRESSLY EXCLUDED TO THE MAXIMUM EXTENT ALLOWED BY LAW, AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT. DIRECTED HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS LICENSED DEALERS OR INSTALLERS. IN NO EVENT WILL DIRECTED ELECTRONICS, INC. BE LIABLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES (INCLUDING LOSS OF PROFITS), BY PURCHASING THIS PRODUCT, THE CONSUMER AGREES AND CONSENTS THAT ALL DISPUTES BETWEEN THE CONSUMER AND DIRECTED SHALL BE RESOLVED IN ACCORDANCE WITH CALIFORNIA LAWS IN SAN DIEGO COUNTY, CALIFORNIA.**

Some states do not allow limitation on how long an implied warranty lasts. In such states, the limitations or exclusions of this Limited Warranty may not apply. Some states do not allow the exclusion or limitation of incidental or consequential damages. In such states, the exclusion or limitation of this Limited Warranty may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights which vary from state to state.

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# Table of Contents

<b>Non-Transferable Limited One Year Consumer Warranty</b>	<b>2</b>
<b>Safety Instructions and Cautions</b>	<b>5</b>
<b>Welcome</b>	<b>6</b>
<b>What's Included</b>	<b>6</b>
<b>Important</b>	<b>6</b>
When Cleaning the Vehicle	6
While Driving	6
When Parked	7
Proper Use	7
Disc Handling and Cleaning	7
Repairs	7
Radio/TV Tuner Use	7
Installation	7
Picture Quality	8
<b>Important Information</b>	<b>8</b>
FCC Notice	8
Your Warranty	8
<b>Controls</b>	<b>9</b>
Monitor	9
DVD—Mounted	10
DVD—UnMounted	12
DVD—Memory Card Mounting	13
<b>DVD Player—Installation</b>	<b>14</b>
<b>DVD Player—Removal</b>	<b>15</b>
<b>Setting the Screen Mode</b>	<b>15</b>
<b>Remote Control Unit</b>	<b>16</b>
Remote Buttons	16
IR Remote Feedthrough	17
Battery Replacement	18
Precautions	18
<b>Loading and Unloading Discs</b>	<b>18</b>
Loading Disc	18
Unloading Disc	19
<b>Operating the Monitor</b>	<b>20</b>
Open/Close the Display Monitor	20
<b>Power Up/Down the Display Monitor</b>	<b>21</b>
P (Picture-In-Picture/Split Screen)	21
Source (Mode)	21
Menu (Console Menu)	22
Door Light On/Off	22
Courtesy Light On/Off	22

<b>Basic Functions</b> .....	<b>.23</b>
DVD Playback.....	23
Play/Pause (DVD/MP3/CD) .....	24
Stop (DVD/MP3/CD) .....	24
Selecting a Track or Chapter.....	25
MP3 and JPEG Playback on CD or Memory Card .....	25
Playback Programming .....	26
Advanced Playback (DVD/MP3/CD) .....	27
<b>Setup</b> .....	<b>.28</b>
<b>Accessing Setup Menus</b> .....	<b>.28</b>
<b>System Setup</b> .....	<b>.29</b>
1. TV System .....	29
2. Screen Saver .....	29
3. TV Type.....	30
4. Password .....	30
5. Rating (Parental Settings).....	30
6. Default .....	31
7. Exit .....	31
<b>Language Setup</b> .....	<b>.31</b>
1. OSD Language .....	31
2. Audio Lang .....	31
3. Subtitle Lang .....	32
4. Menu Lang.....	32
<b>Installation Guide</b> .....	<b>.32</b>
Precautions .....	32
Electrical Connections .....	33
Signal Connection.....	34
Typical Wiring Diagram .....	35
<b>Installation Procedure</b> .....	<b>.36</b>
<b>System Wiring Diagram Example</b> .....	<b>.38</b>
<b>Troubleshooting</b> .....	<b>.39</b>
<b>Specifications</b> .....	<b>.41</b>

# Safety Instructions and Cautions



**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK AND ANNOYING INTERFERENCE, USE ONLY THE INCLUDED HARDWARE.

THIS MONITOR IS ONLY DESIGNED FOR REAR SEAT PASSENGER VIEWING AND IS NOT INTENDED FOR VIEWING BY THE DRIVER WHILE THE VEHICLE IS IN MOTION. SUCH USE MAY DISTRACT THE DRIVER OR INTERFERE WITH THE SAFE OPERATION OF THE VEHICLE, AND MAY ALSO VIOLATE STATE LAW.

DIRECTED ELECTRONICS DISCLAIMS ANY LIABILITY FOR ANY BODILY INJURY, INCLUDING FATALITIES, OR PROPERTY DAMAGE THAT MAY RESULT FROM ANY IMPROPER OR UNINTENDED USES OF THIS PRODUCT.

SHOULD THE LCD PANEL BREAK OR LEAK FLUID, AVOID ALL CONTACT WITH THE UNIT. IF YOU SHOULD COME IN CONTACT WITH THE LEAKED FLUID, WASH THE AFFECTED AREA THOROUGHLY WITH WATER AND SEEK IMMEDIATE MEDICAL ATTENTION.

DO NOT CLOSE THE LCD SCREEN IF A MEMORY CARD HAS BEEN INSERTED INTO THE DVD PLAYER. THIS CAN CAUSE THE LCD PANEL TO BREAK OR LEAK FLUID (SEE ABOVE WARNING). REMOVE MEMORY CARD(S) BEFORE CLOSING SCREEN.

- During operation, if the unit should over-heat or malfunction, switch off the unit and see your dealer. Do not disassemble the unit as there are no user-serviceable parts in this unit and the warranty will be voided.
- Should there be a need to replace a blown fuse, turn off the unit and disconnect all power to the player. Use only the correct rating fuse to avoid electrical damage to the unit.
- Only operate the monitor as described in this guide. Attempts to use or modify this monitor contrary to the descriptions in this guide may cause damage and void the warranty.
- Extremes in temperature can cause abnormal display operation. This monitor has an optimal operating temperature range between 32–120 degrees Fahrenheit. If the vehicle interior is outside this range, do NOT operate the monitor until the temperature is within its operating range.
- Exposure to moisture or dust can cause harmful damage to the internal electronics. Do not mount near cup holders or in areas where spills may occur.
- This monitor is designed for use in vehicles with standard (-) 12 volt ground electrical systems.
- Do not operate for an extended period of time without the engine running or the vehicle's battery voltage may drop to levels precluding engine starting.
- Do not drop the LCD panel or subject it to direct impact. This will damage the panel and/or the back light element.

- When operating the unit, avoid contact with the LCD panel.
- Prevent metal or foreign objects being locked between the LCD screen and the enclosure. Foreign objects may impair smooth running of the disc and may cause electrical problems.
- Keep unit away from equipment with strong magnets such as large loudspeakers.
- To prevent malfunction, do not play discs other than the ones listed below: DVD audio discs, CD-ROMs, JPEGs, MP3s and DVDs with region numbers other than this player's region number.

## Welcome

Thank you for your purchase of Directed's Overhead Monitor with integrated DVD. Prior to operating this unit, please fully read this instruction manual and retain it for future reference.

## What's Included

The following items are included with your purchase:

- |                                  |                                |
|----------------------------------|--------------------------------|
| ● Monitor with DVD Player        | ● Power Harness (2)            |
| ● A/V Switch Box                 | ● DIN Cable                    |
| ● (2) Headphones (HP200)         | ● Domelight Harness            |
| ● Remote Control                 | ● Mounting Trim Gasket         |
| ● Mounting Plate (with 6 screws) | ● A/V Cable for DVD Player     |
|                                  | ● AC/DC Adapter for DVD Player |

## Important

### WHEN CLEANING THE VEHICLE

Do not spray this unit with water or cleaning solutions. Moisture and the chemicals found in cleaning fluids could damage the console's finish and interior electronics. A soft damp, lens cleaning cloth should be used to wipe the screen. Do NOT use any type of scouring pad, abrasive cleaners, or solvents.

### WHILE DRIVING

This unit is intended for use in the rear seat area only. It is illegal in some jurisdictions to install the unit in a location that would allow the driver to view it while driving.

## WHEN PARKED

The screen is easily visible when deployed. Always close the screen when parking for an extended period of time to avoid potential theft or extended exposure to direct sunlight.

## PROPER USE

Do not touch the screen. Do not pull or hang from the fold down monitor door.

## DISC HANDLING AND CLEANING

Always handle the discs by the edge. Never touch the shiny side of the discs, as this can impair proper playback.

Mount and dismount the discs with care not to damage or scratch the shiny side of the disc. This will cause playback faults.

Do not expose the discs to direct sunlight.

After playing, store the disc back in its case.

To clean the disc, use a clean soft lint-free cloth and wipe the disc from the center out. Do not wipe with a circular motion. Do not use any solvents.

## REPAIRS

If the monitor stops working for any reason, discontinue use immediately and consult with your retailer about any necessary repairs.

## RADIO/TV TUNER USE

When the unit is used in conjunction with a Radio/TV tuner, please assure that the receiver is manufactured to receive television broadcast signals that are transmitted via terrestrial radio waves. Reception quality will change and vary according to vehicle location and weather conditions.

## INSTALLATION

Avoid installing the monitor at a location, where it will be under direct sunlight or a hot air vent. The operating temperature of the unit is from 32–120°F (0–50°C). Install the unit at a dry location, where it is away from condensation.

Use only the correct size fasteners and cables during installation. Failure to do so may cause a mechanical or electrical failure and create a fire hazard. The installation should be done by an authorized Directed dealer.

**NOTE:** *If the internal temperature of the vehicle is higher than the normal operating temperature, please allow the vehicle to cool down (or warm up) prior to operating the unit.*

**PICTURE QUALITY**

The picture quality of this LCD unit depends strictly on its installed location. To achieve the best picture quality, adjust the brightness control or viewing angle of the unit until the optimum viewing is achieved.

**Important Information**.....

**FCC NOTICE**

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesirable operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

**YOUR WARRANTY**

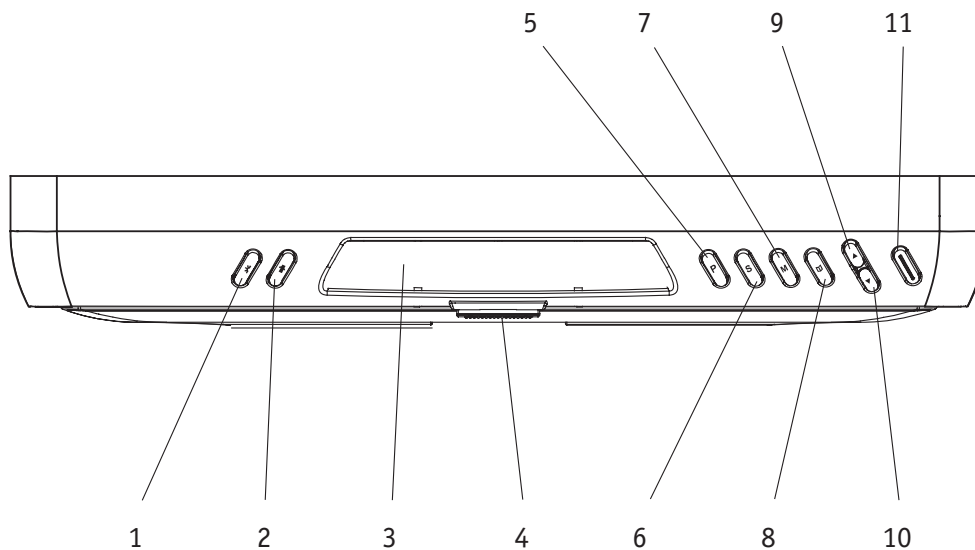
Your warranty registration must be completely filled out and returned within 10 days of purchase. Your product warranty will not be validated if your warranty registration is not returned. Make sure you receive the warranty registration from your dealer. It is also necessary to keep your proof of purchase, which reflects that the product was installed by an authorized dealer.














# Controls

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## MONITOR

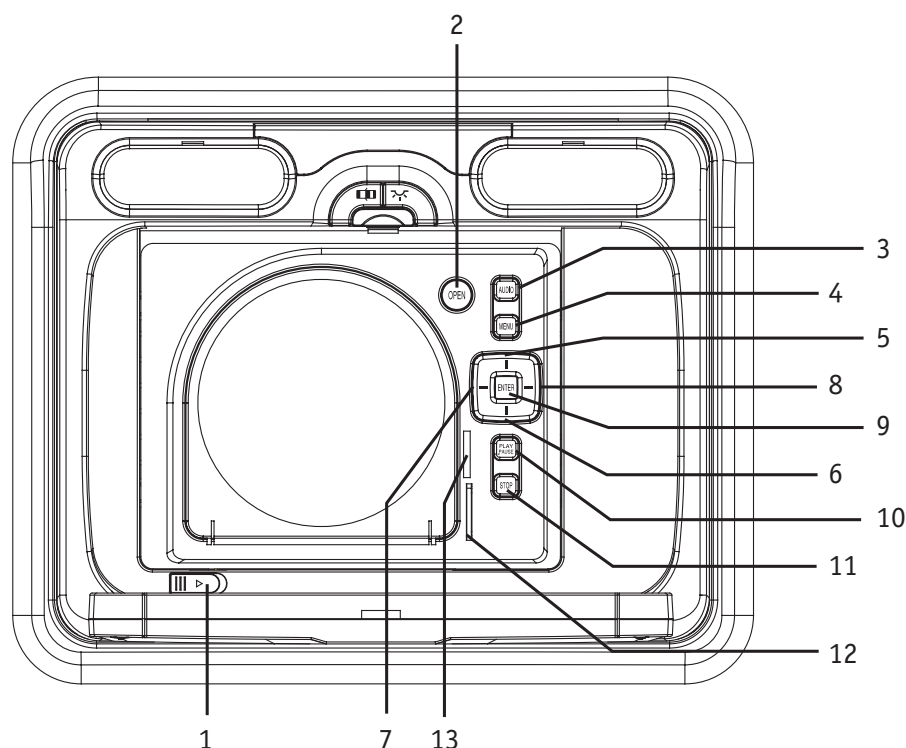




1.  COURTESY LIGHT—Activate this switch to "ON/OFF" to activate the dome lights on the monitor.
2.  DOOR LIGHT On/Off—Engage this switch to have the door open switch activate the dome lights.
3. IR Transmitter/Receiver—Infrared transmitter and receiver which transmits the audio to the headphones and receives commands from the remote control.
4. OPEN/CLOSE—The latch to open or close the LCD screen.
5.  PICTURE—Each press of this button activates the Picture-In-Picture (PIP), split screen, or normal feature.
6.  SOURCE—Selects the source to be used for the monitor (DVD, AV1, or AV2). This button will select the source for PIP or split screen mode, if PIP or split screen are active.
7.  MODE—Selects Full, Normal, Wide, or Zoom video presentation. It will select 4:3 or 16:9 for PIP video presentation, if PIP is active.
8.  MENU—Used to set FM Frequency, Brightness, Contrast, Saturation, Hue, or Reset (menu parameters). The menu will exit if no action is taken within a few seconds.



9.  UP Button—Used in conjunction with the  button to scroll up (or increase) the menu setting.
10.  DOWN Button—Used in conjunction with the  button to scroll down (or decrease) the menu setting.
11.  POWER—Power On/Off button.

## DVD—MOUNTED

The illustration below shows the DVD player mounted in a typical LCD monitor.



1. LOCK/UNLOCK—To dock or undock the DVD player.
2. OPEN—Press this button to open the access door to mount or dismount a disc.
3. AUDIO—Each press of this button accesses each audio track recorded on the DVD (multiple languages, commentary, etc.)
4. MENU—Displays the menu on the DVD. Use the Up, Down, Left, and Right buttons to scroll through the available selections. Use the Enter button to select.
5. UP— \*
6. DOWN— \*

- 7. LEFT—  \*
- 8. RIGHT—  \*
- 9. ENTER \*

10. PLAY/PAUSE—When pressed pauses the playback until pressed again.

11. STOP—Halts playback. If the Play button is pressed the playback will continue from where stopped. If the Stop button is pressed twice, playback will now start from the beginning.



**WARNING:** DO NOT CLOSE THE LCD SCREEN IF A MEMORY CARD HAS BEEN INSERTED INTO THE DVD PLAYER. THIS CAN CAUSE THE LCD SCREEN TO BREAK OR LEAK FLUID. IF YOU SHOULD COME IN CONTACT WITH LEAKED FLUID, WASH THE AFFECTED AREA THOROUGHLY WITH WATER AND SEEK IMMEDIATE MEDICAL ATTENTION. REMOVE ALL MEMORY CARDS BEFORE CLOSING THE LCD SCREEN.

12. MS Card—Memory Stick, allows playback of music, photographs, movies, etc.

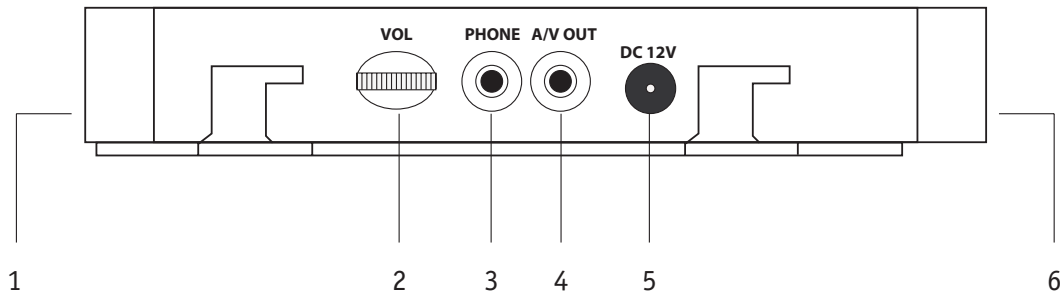
13. SD Card—Secure Digital, allows playback of music, photographs, movies, etc.

**NOTE:** To read from a memory card, there must not be a DVD or CD in the player and the player door must be closed. Only 1 memory card can be inserted into the player at a time.

\* These buttons are used to navigate through the menus on the screen and then use the Enter button to select the option.

## DVD—UNMOUNTED

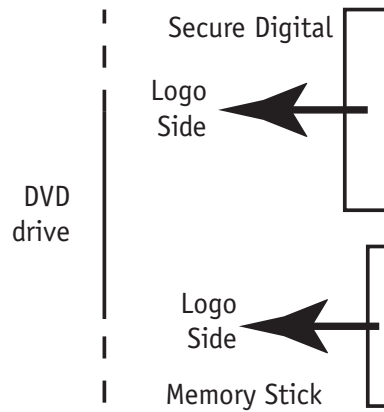
The illustration below shows the side of the DVD player when removed from the LCD monitor.



1. Electrical connector—This connector provides the electrical interface when mounted in the LCD monitor.
2. VOL Control—Controls the volume to the phone jack output.
3. PHONE Jack—An optional headphone set can be connected here.
4. A/V OUT Jack—Audio/video output jack.
5. DC 12V Jack—Input power.
6. IR Receiver—For receiving commands from the remote control.

## DVD—MEMORY CARD MOUNTING

Ensure that the memory cards are mounted with the logo side of the memory cards oriented with the arrows as shown below (towards the DVD drive):

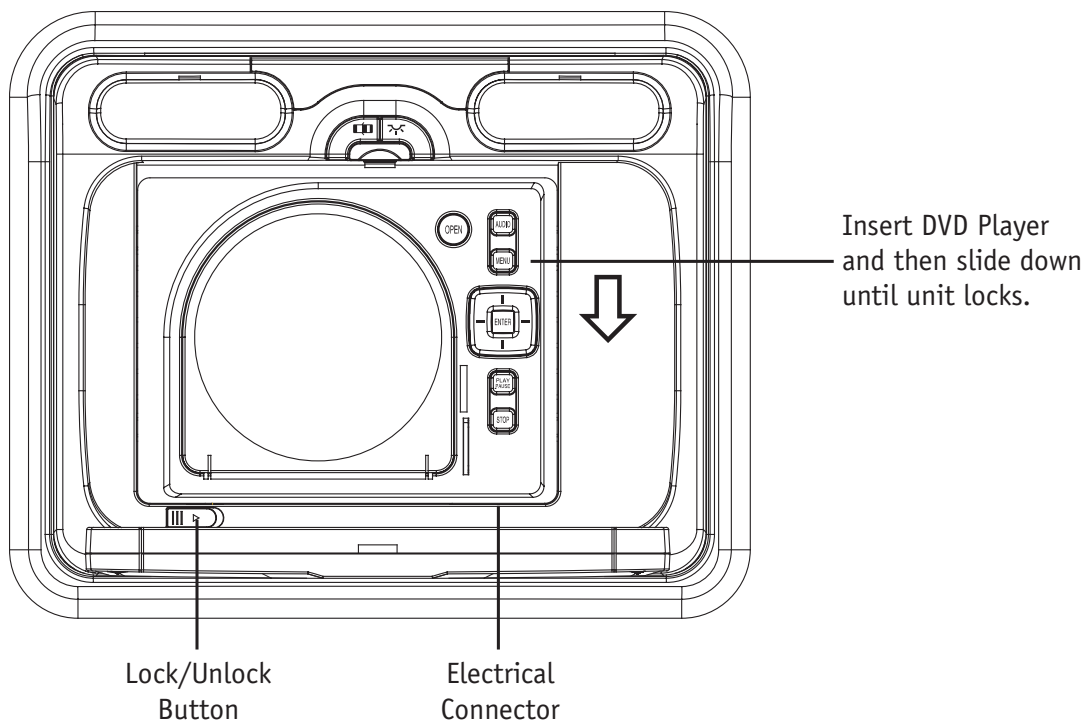


**WARNING:** DO NOT CLOSE THE LCD SCREEN IF A MEMORY CARD HAS BEEN INSERTED INTO THE DVD PLAYER. THIS CAN CAUSE THE LCD SCREEN TO BREAK OR LEAK FLUID. IF YOU SHOULD COME IN CONTACT WITH LEAKED FLUID, WASH THE AFFECTED AREA THOROUGHLY WITH WATER AND SEEK IMMEDIATE MEDICAL ATTENTION. REMOVE ALL MEMORY CARDS BEFORE CLOSING THE LCD SCREEN.

## DVD Player—Installation

1. Ensure power to the monitor is off and that the ignition key is off.
2. Align the notches in the side of the player with the tabs in the sides of the monitor DVD mounting area and slide the player into the monitor.
3. Slide the player towards the LCD screen until the lock/unlock button latches.


**NOTE:** If the DVD player doesn't power up correctly, remove the player (see instructions below) and then re-install.

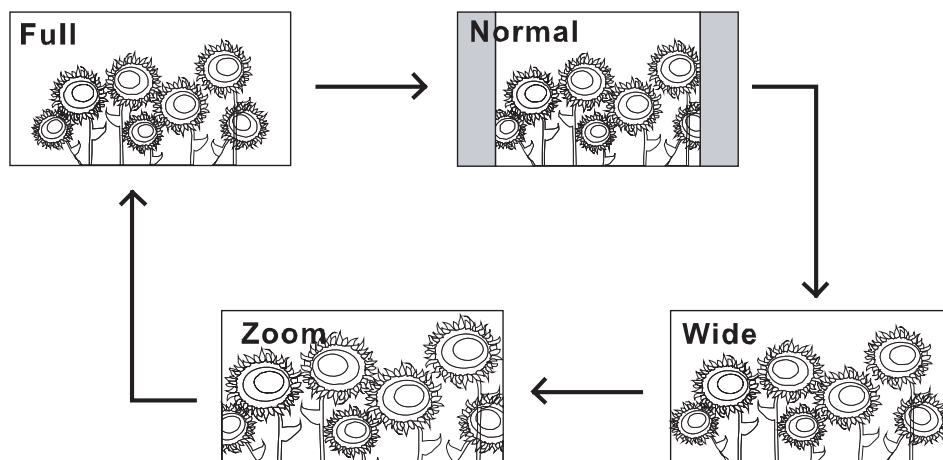


## DVD Player—Removal

1. While holding and supporting the DVD player.
2. Move and hold the lock/unlock button to the right.
3. Slide the player away from the screen and carefully remove.

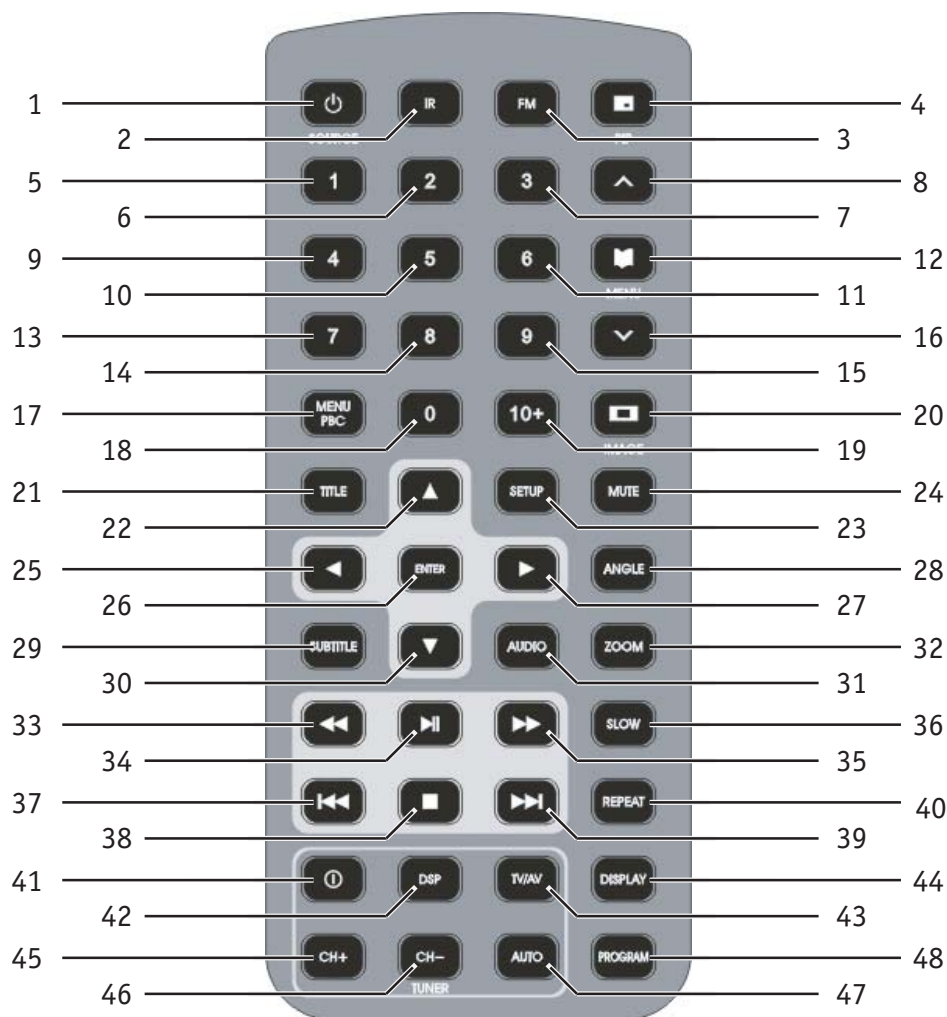
## Setting the Screen Mode


The overhead monitor has 4 different screen modes. These are: FULL, NORMAL, WIDE, and ZOOM. Pressing the MODE **M** button on the front of the monitor or the Image  button on the remote control can access the different screen modes. The last mode set is displayed on the screen. Each time the Mode button is pressed, the screen switches in the following sequence.



# Remote Control Unit


## REMOTE BUTTONS



1. POWER (source) 

2. IR (on/off)


3. FM (on/off)

4. Picture (PIP) 

5-7. Numeric

8. UP (display) 


9-11. Numeric

12. Console MENU 

13-15. Numeric


28. ANGLE

29. SUBTITLE (on/off)

30. DOWN (Cursor) 

31. AUDIO

32. ZOOM (2, 3, 4, 1/2, 1/3, 1/4, OFF)


33. F.REV (Fast Reverse) 

34. PLAY/PAUSE 

35. F.FWD (Fast Forward) 


36. SLOW




16. DOWN (display) 

17. MENU/PBC

18-19 Numeric


20. Image  (wide, zoom, full, normal)

21. TITLE


22. UP (Cursor) 


23. SETUP

24. MUTE (on/off)

25. LEFT (Cursor) 

26. ENTER

27. RIGHT (Cursor) 

37. BACK 

38. STOP

39. NEXT 

40. REPEAT

41. POWER (Tuner)\*

42. DSP (channel display)\*

43. TV/AV (selects Tuner or Aux input)\*

44. DISPLAY

45. CH+ (channel up)\*

46. CH- (channel down)\*

47. AUTO (auto programming of TV channels)\*

48. PROGRAM

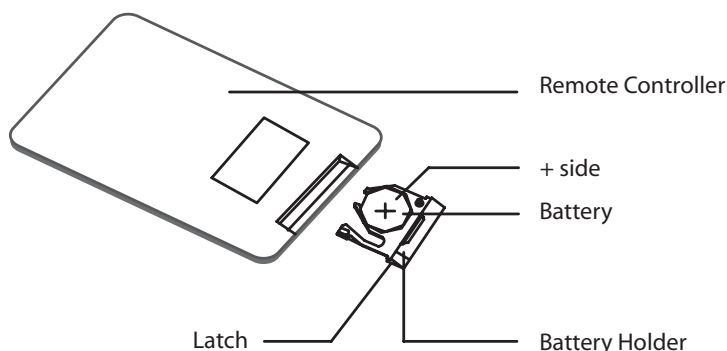
## IR REMOTE FEEDTHROUGH

The remote will operate, through the monitor, and transmit commands to other compatible devices attached to the AV1 or AV2 source at the switch-box. The IR signals are compatible with models DV2602, DV2605 DVD players, and TV100 tuner.

\* These buttons are for use only with the TV tuner (model TV100).

## BATTERY REPLACEMENT

**NOTE:** Before using remote after installation, remove the battery plastic protective slip.



1. Move the small latch to the right and slide out the battery holder.
2. Remove old battery and replace it with a new battery (CR2025) with the positive “+” sign facing as shown above.
3. Push battery holder back into its compartment until it is locked.

## PRECAUTIONS

1. Properly dispose of used battery.
2. Do not misuse battery by shorting the positive “+” and negative “-” terminal or put it into fire. Overheating may cause the battery to explode and cause a fire hazard.
3. If the remote is not to be used for a long period, remove the battery from the remote to prevent damage from battery leakage.
4. To avoid accidents, prevent children from playing with the battery.

## Loading and Unloading Discs

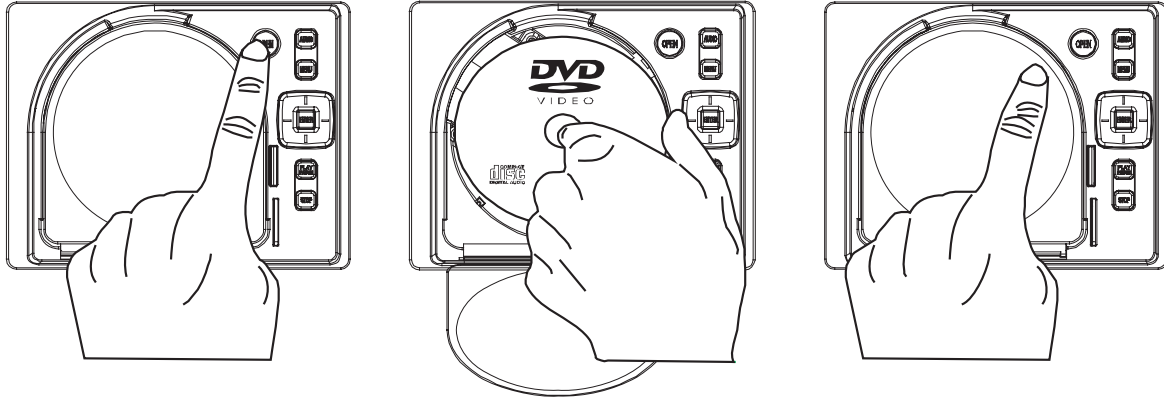
You can use single side and dual layer DVDs, VCDs, CD-audio and CD-R compatible 12cm discs with this system.

### LOADING DISC

1. Press OPEN at the upper right corner to open the door.
2. Load with the recorded side (the shiny side) facing up. With double-sided discs, load with the

side you want to watch facing up. Ensure that the disc is seated properly before pushing tray back into its locking position.

3. Push to close the door.

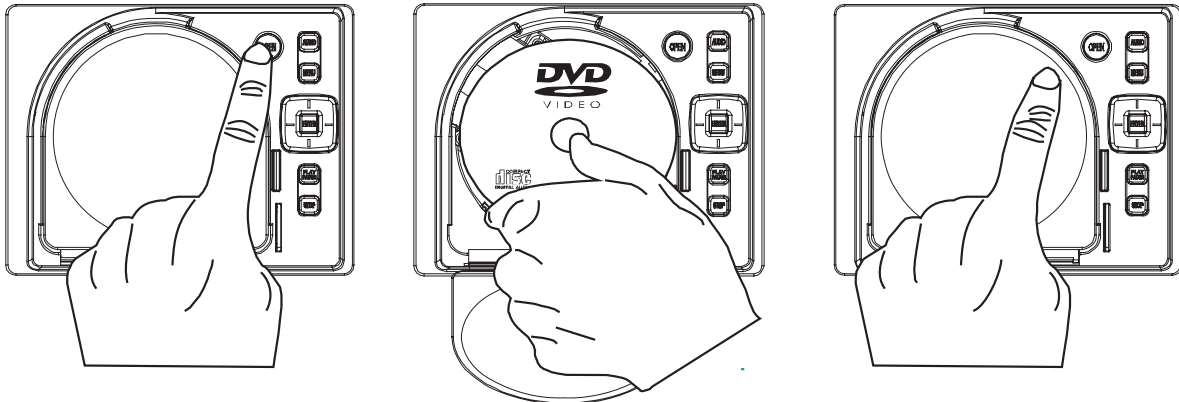


## UNLOADING DISC

1. Press OPEN at the upper right corner to open the door.

2. Remove the disc. (Avoid touching the recorded surface.)

3. Push to close the door, until you hear a click sound from the door mechanism.



# Operating the Monitor

## OPEN/CLOSE THE DISPLAY MONITOR

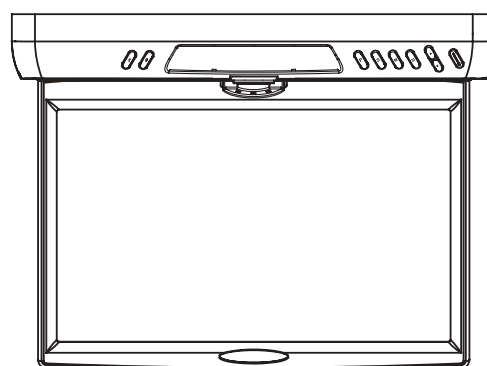
To open the display monitor, push the "OPEN" button and pull the monitor down **by the middle** of the LCD to the desired position. Use the **middle of the** LCD screen to rotate to a desired viewing position.



**WARNING:** THE LCD MONITOR MUST ALWAYS BE OPENED, CLOSED, OR POSITIONED FROM THE MIDDLE OF THE SCREEN AS SHOWN BY THE POINTING HAND BELOW. DO **NOT** USE THE CORNERS OF THE SCREEN, THIS CAN RESULT IN DAMAGE/LEAKAGE OF THE SCREEN.



Open Button  
Closed Position



Use this portion of the screen for opening, closing, and positioning.

Open Position





**WARNING:** DO NOT CLOSE THE LCD SCREEN IF A MEMORY CARD HAS BEEN INSERTED INTO THE DVD PLAYER. THIS CAN CAUSE THE LCD SCREEN TO BREAK OR LEAK FLUID. IF YOU SHOULD COME IN CONTACT WITH LEAKED FLUID, WASH THE AFFECTED AREA THOROUGHLY WITH WATER AND SEEK IMMEDIATE MEDICAL ATTENTION. REMOVE ALL MEMORY CARDS BEFORE CLOSING THE LCD SCREEN.


To close the display monitor, first rotate the LCD screen to align for closure and then push the LCD screen up until it latches closed with an audible click.

**Note:** The ignition key must be in the Accessory or Ignition position in order for the monitor to have power.



## Power Up/Down the Display Monitor.....

The unit will power up when the display monitor is unlatched and pulled down. (If the unit does not power up, press the Power  button on either the remote or the Power  button on the right side of the monitor.

To turn the power off to the unit, press the POWER  button on the remote. The power will also shut Off when the display monitor is placed in the closed and latched position.



If the hand  icon or “INVALID KEY” displays in the upper left-hand corner of the screen when using the remote, it indicates that the command issued is not allowed during the mode that the monitor display is presently in, or is not available on this system.

### P (PICTURE-IN-PICTURE/SPLIT SCREEN)


Select this feature by pressing  on the remote or the  button on the monitor to display PIP or Split Screen viewing of a total of two inputs from the DVD, or the A/V inputs. When the system is in PIP or Split Screen mode, the source feature described below only works on the small inserted picture or on the split picture displayed on the right side of the monitor.

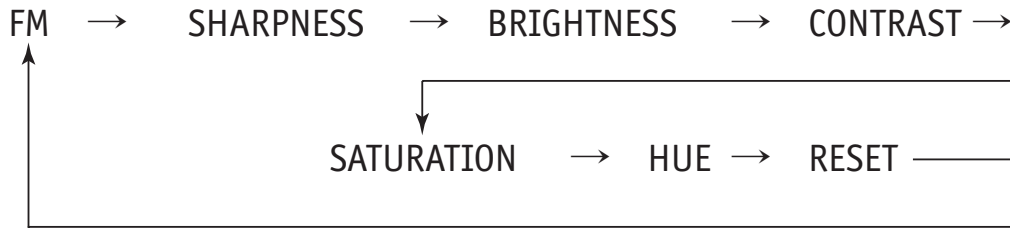
**NOTE:** The switch on the HP200 headphones allow the listener to switch between the two pictures (PIP or Split Screen). The IR button on the remote turns the audio to the headphones On/Off.

### SOURCE (MODE)

Press the  (SOURCE) button on the remote or the  button on the monitor to select the input signal AV1, AV2 or DVD.

## MENU (CONSOLE MENU)

Press "MENU"  button on the monitor or remote to activate the screen parameters set-up. The sequence of set-up items is as follows:



FM: Transmitting frequency

SHARPNESS: Sharpness adjustment


BRIGHTNESS: Brightness adjustment

CONTRAST: Contrast adjustment

SATURATION: Color saturation adj.


HUE: Color hue adjustment

RESET: Resets above (except FM) to factory default settings.

Once the desired setting is selected, press the cursor buttons to adjust the setting. On the remote use the up/down cursor buttons located at either side of the menu button. On the monitor use the cursor buttons to the right side of the  button. If a button is not activated within 5 seconds, this function mode will turn OFF. Once the correct function is selected, press the cursor button (to set the desired setting). If no button is pressed, the menu mode will turn OFF in about 5 seconds.

The FM frequency setting allows the monitor to transmit audio to the vehicle's radio. Use a frequency that is not interfered with from a local broadcast station. This setting also has an OFF position.

## DOOR LIGHT ON/OFF

Engage this switch  on the monitor to activate the dome lights when a door is open.

**NOTE:** This function is operational only when the Gray wire of the dome light circuit is connected to the door switch.

## COURTESY LIGHT ON/OFF

Activate this switch  on the monitor to control the dome light illumination.

# Basic Functions

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## DVD PLAYBACK

1. Press the remote control's POWER  button or the monitor's POWER  button to switch on the unit's power.
2. Select video source (DVD).

**NOTE:** *If there is no disc in the DVD player, a "NO DISC" message will be displayed in the upper left corner of the screen.*


3. Load a disc into the unit. The message "READ" will appear in the upper left corner of the screen.
4. DVD playback commences.

**NOTE:** *The disc will start to play if there are no titles recorded on the disc. If one or more titles are recorded on the disc, a menu will appear on the LCD screen.*

5. Press  /  /  /  on the remote (or their equivalent on the DVD player) to select the preferred item or title from the menu.
6. Press the ENTER (on remote or DVD player) button, the selected item will now start playing.
7. To return to the menu screen, press the DVD MENU button.
8. After viewing completion, press the POWER  button to put the unit into standby mode.

**NOTE:** *If the "WRONG REGION" message appears, it means that the corresponding operation is prohibited either by the player or by the disc.*


## FAST FORWARD OR REVERSE (DVD/MP3/CD)

1. Press the "FF"  button during playback. Each time this button is pressed, the unit will go into a rapid advance playback mode. This will be shown on the LCD, depending on the speed of the playback selected.

■ playback

FF 2X      FF 4X      FF 8X      FF 20X      PLAY

Press "PLAY" button, the speed will go back to standard.

2. Press the "FR"  button during playback. Each time this button is pressed, the unit will go into a rapid reverse playback mode. This will be shown on the LCD, depending on the speed of the playback selected.

■ playback

FR 2X      FR 4X      FR 8X      FR 20X      PLAY

Press "PLAY" button, the speed will go back to standard.

## NEXT TRACK OR PREVIOUS TRACK (DVD/MP3/CD)

1. Press the "NEXT"  button during playback.

■ MP3/Audio CD

The player will skip forward to the next track each time the button is pressed. "NEXT" will be displayed on the LCD screen.

■ DVD

The player will skip forward to the next title/chapter each time the button is pressed.

2. Press the "PREV"  button during playback.


■ MP3/Audio CD


The player will skip to the beginning of the previous track each time the button is pressed. "PREVIOUS" will be displayed on the LCD screen.

■ DVD




The player will skip to the beginning of the previous chapter each time the button is pressed.



## PLAY/PAUSE (DVD/MP3/CD)

1. Press the "PLAY/PAUSE"  button, during playback. "PAUSE" will display on the LCD. The player is placed in the pause mode.

2. Press the "PLAY/PAUSE"  button again. "PLAY" will momentarily display on the LCD. The player returns to normal playback.

## STOP (DVD/MP3/CD)

1. During playback, when the "STOP"  button is pressed, the playback will stop. "PRE STOP" will display on the LCD. Press the "PLAY/PAUSE"  button to continue playback from the point where the "STOP"  button was pressed.

2. During playback, if the "STOP"  button is pressed twice. "STOP" will display on the LCD. Press the "PLAY/PAUSE"  button to resume playback from the beginning.









## SELECTING A TRACK OR CHAPTER





Selecting tracks or chapters can be accomplished by either using the remote or front mounted controls. These controls allow the operator to skip over undesirable tracks or repeat a particular track. When playing a DVD, press the numeric buttons on the menu or title page to select tracks. During DVD playback, you can input the desired title number directly.

## MP3 AND JPEG PLAYBACK ON CD OR MEMORY CARD

Place a MP3, or JPEG disc or memory card into the DVD player. The player will search the media for the saved directories and files. It will automatically go to the first directory saved and play or display the first file in that directory.

By using the arrow and ENTER buttons on the DVD player or the remote you can navigate and select the directories (left side of the screen), or the file (right side of the screen).

When the disc or memory card contains JPEGs press the "PLAY/PAUSE"  button to present these in slide show mode (displays each JPEG for a few seconds before advancing to the next JPEG). Press the "PLAY/PAUSE"  button to pause the slide show at a photograph of interest. Use the arrow buttons  /  /  /  on the remote (or their equivalent on the DVD player) to change the orientation of the photograph. Pressing the PROGRAM button on the remote as the slide show is being presented will change the "wipe" as each JPEG is displayed (there are 16 choices to from, including RANDOM and NONE [off]).

The bottom of the screen will display the contents of the media - music  , camera  , video  icons. For example if a memory stick contains MP3 and JPEG files but does not contain any video files, the music and camera icons will appear white, but the video  icon will appear dark. If a file is playing or displaying, the icon associated with that file will turn RED.

# PLAYBACK PROGRAMMING

Press the PROGRAM button on the remote to display the Track (T)/Chapter (C) programming menu screen. This allows you to selected those items on a DVD, MP3, or JPEG that you wish to view or listen. Use the arrow navigation keys on the remote to enter the Track and Chapter numbers, and then navigate down to PLAY and press the ENTER button on the remote control.

The program will be retained only as long as power is on to the monitor or the disk or memory stick that is being programmed is mounted in the system.

For MP3 or JPEG files the Track corresponds to the folder and the Chapter corresponds to the play or viewing selection(s) desired within that folder.

PROG								
	T	C		T	C		T	C
1	--	--	5	--	--	9	--	--
2	--	--	6	--	--	10	--	--
3	--	--	7	--	--	11	--	--
4	--	--	8	--	--	12	--	--
PLAY				CLEAR				

For SVCD, VCD, or CD the programming menu below displays. These formats do not have Track and Chapter.

PROG							
1	[--]	5	[--]	9	[--]	13	[--]
2	[--]	6	[--]	10	[--]	14	[--]
3	[--]	7	[--]	11	[--]	15	[--]
4	[--]	8	[--]	12	[--]	16	[--]
PLAY				CLEAR			

## ADVANCED PLAYBACK (DVD/MP3/CD)

### REPEAT MODE

#### ■ MP3/Audio CD

When the **"REPEAT"** button is pressed:

REP ONE = The current track will be repeated.

FOLDER REP = The current folder will be repeated.

FOLDER = All the folders will be repeated.

#### ■ DVD


When the **"REPEAT"** button is pressed:


CHAPTER REPEAT = The current chapter will be repeated.

TITLE REPEAT = After the DVD plays, the current title menu will be displayed.

REPEAT OFF = The repeat mode will be switched off.


### CAMERA ANGLE (DVD)

Some DVD discs may contain scenes, which have more than one viewing angle. For these discs, a projector  icon will display in the upper left corner of the screen. The same scene can be viewed from a different angle by using the **"ANGLE"** button.

1. During DVD playback, press the **"ANGLE"** button. A  icon along with "x/y" will appear. "x" represents the current camera angle, and "y" represents the total number available camera angles.
2. Press the "ANGLE" button until the preferred viewing angle is selected. The ANGLE selection will cycle through all available camera angles.

**NOTE:** *This function will only work on discs where multiple camera angles have been recorded.*


### AUDIO FUNCTION (DVD)

During DVD playback, press the AUDIO button. An audio  icon will appear, along with the language presently playing. Each press of the AUDIO button will cycle the DVD through each language available.

**NOTE:** *The audio function works only for discs that have multiple audio soundtracks.*

**SUBTITLE (DVD)**

You may change the subtitle language from the one selected at the initial playback setting to a different language, if available.

During DVD playback, press the "SUBTITLE" button. A screen  icon will appear along with the status/language to be displayed. Each press of the "SUBTITLE" button will cycle to the next available subtitle language, and then back to off.

**Setup**






Using the setup menus, you can do the initial setup, adjust the picture quality, and set the various outputs. You can also set a language for the on-screen display.



- 1. Press the SETUP button on the remote to display the "Setup System". It will allow you to modify some of the player's basic settings. While using the setup screens disk play will auto pause.
- 2. Select one of the two main groupings of setups, SYSTEM, or LANGUAGE. Then press the ENTER button.

To Cancel using Setup, press the SETUP button on the remote.

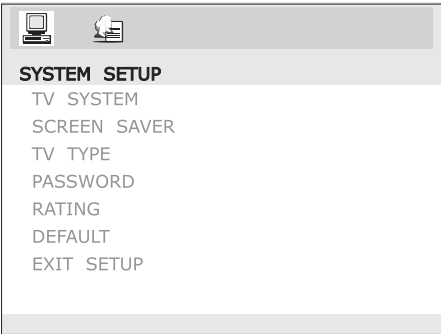
**Accessing Setup Menus**

(A) Press the SETUP button on the remote, the setup menu will appear as shown below.

(B) Press the / arrow buttons to highlight the icon of the desired page, then press the  or  arrow button to activate that page; For example, if you want to setup the video page, press  to highlight the video icon, the video page will be displayed on the screen as shown on the right.

(C) Press the  button to highlight the desired option. Press Enter or press  to select, the choices of that option appear on the right.

(D) Press the Arrow buttons to highlight the Exit Setup option, then press Enter or Setup again to exit Setup Menu.



# System Setup

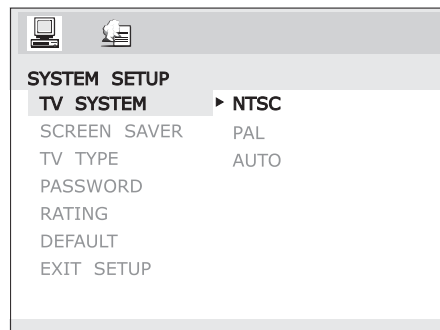
## 1. TV SYSTEM

According to the Color System of the TV, you can choose the TV System.

**NTSC:** Choose this settings if your DVD player is connected to a NTSC TV.

**PAL:** Choose this settings if your DVD player is connected to a PAL TV.

**AUTO:** Choose this settings if your DVD player is connected to a multi-system TV.

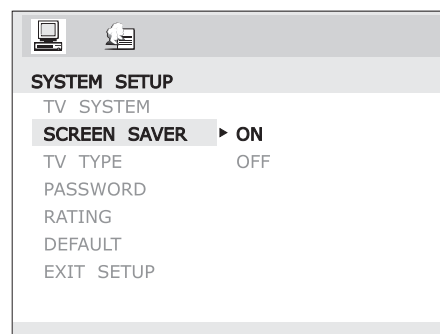


**NOTE:** If a DVD that is recorded in PAL is inserted while the set-up menu has NTSC selected, it will automatically go to AUTO and play PAL, and return to NTSC when the DVD is finished playing. If this setting is set to AUTO the picture will flicker, roll, as the system determines what format DVD has been inserted and then settle into the correct display mode for that DVD.

## 2. SCREEN SAVER

**ON:** Choose this setting to activate the screen saver.

**OFF:** Choose this setting to cancel the screen saver.

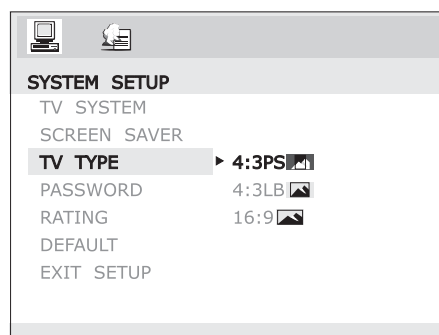


### 3. TV TYPE



**4 : 3 PS (Pan & Scan):** Choosing this setting if your DVD player is connected to a normal ratio TV. You can fill the movie to the entire screen of your TV. This might mean that parts of the picture (the left and right edges) won't be seen.

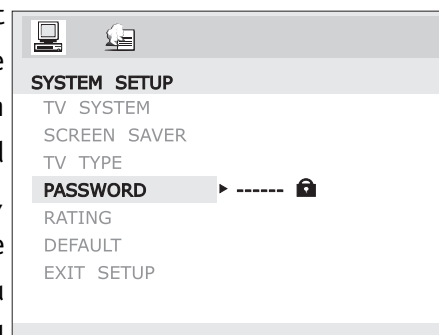
**4 : 3 LB (Letter Box):** Choosing this setting if your DVD player is connected to a normal ratio TV. You'll see the movies in their original aspect ratio (height-to-width ratio). You'll see the entire frame of the movie, but it will take up a smaller portion of the screen vertically. The movie might appear with black bars at the top and bottom of the screen.

**16 : 9 (Wide Screen):** Choose this setting if your DVD player is connected to a wide screen TV.



### 4. PASSWORD

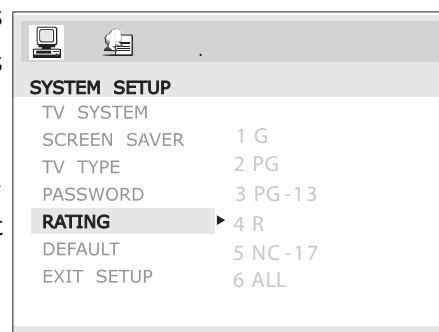
The password option is initialized locked, and you cannot set the ratings limit or change the password. In order for the Ratings feature work, the password mode must be turned on (the lock icon will be locked ). If you want to access and set the ratings limit, you will need to first enter the password, (factory default is 1234), and then press Enter to confirm (the lock icon will be unlocked ). To change the password, you will be prompted for the old password, and then be prompted for a new password. Ensure that the new password is recorded for future use.



### 5. RATING (PARENTAL SETTINGS)

The Rating setting is a rating viewing limit system. It works with DVD discs that have been assigned a rating. This helps you control the DVDs that your family watches.

There are 6 rating options, these are: G, PG, PG-13, R, NC-17, and ALL. Select level ALL to view all DVDs. The factory default setting is ALL.



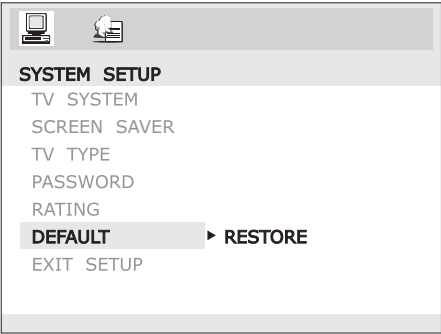
**NOTE:** If the password option is locked, you cannot set the ratings limit. The rating limit does not work if the password option is unlocked. Refer to the Password discussion above.

6. DEFAULT

Choose this option to reset all the setup options (except for password and rating setting) to default settings.

7. EXIT

Choose this option to exit the setup options.

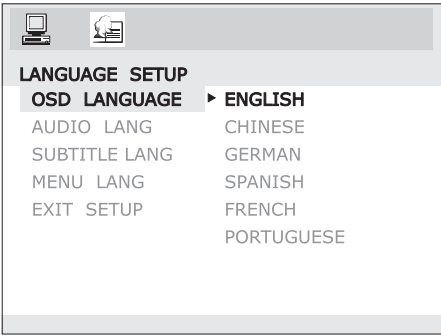


Language Setup

The language setup options are listed below:

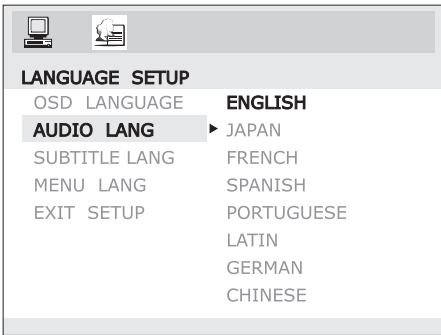
1. OSD LANGUAGE

The OSD (On Screen Display) Language Menu allows the user to select the language for the on-screen display. Highlight the OSD LANGUAGE option, and press the Arrow buttons to choose the OSD language you prefer. The user can select English, Chinese, German, Spanish, French, and Portuguese.



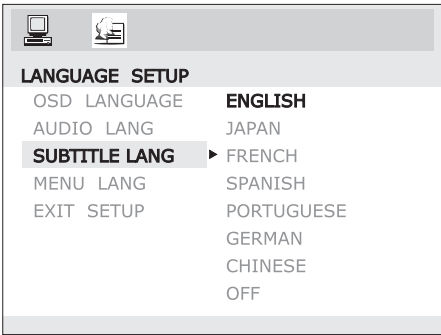
2. AUDIO LANG

The Audio Lang Menu allows the user to select the language for the disc. Highlight the AUDIO LANG option, and press the Arrow buttons to choose the audio language you prefer. Press Enter to confirm. You can select English, Japan, French, Spanish, Portuguese, Latin, German or Chinese.



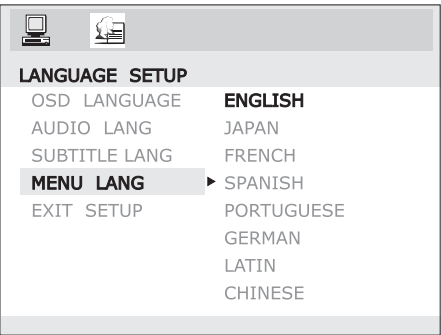
### 3. SUBTITLE LANG

The Subtitle Lang Menu allows the user to select the language for the subtitle of disc. Highlight the SUBTITLE LANG option, and press the Arrow buttons to choose the subtitle language you prefer. Press Enter to confirm. You can select English, Japan, French, Spanish, Portuguese, Latin, German and Chinese.



### 4. MENU LANG

The Menu Lang allows the user to select the language for the menu. Highlight the MENU LANG option, and press the Arrow buttons to choose the menu language you prefer. Press Enter to confirm. You can select English, Japan, French, Spanish, Portuguese, Latin, German or Chinese.



## Installation Guide

### PRECAUTIONS

1. This unit should be installed by an authorized Directed dealer.
2. When selecting a location to install this unit, be sure it does not interfere with the driver's ability to operate the vehicle or the driver's or passenger's safety.
3. This product is designed to operate with a 12V DC, negative ground battery system.
4. Disconnect the ground wire from the battery terminal prior to connecting the unit to the electrical system.

**NOTE:** Head units with security codes will have to be reset after battery power is restored.

5. The wiring from some other products or accessories might bear similar color code as this product; however, they might be for other functions. Please refer to the electrical connection diagrams of this product prior to installation to avoid improper connection.
6. Use proper connectors and insulation to prevent electrical damage to the unit.



7. Do not connect the yellow wire and red wire together of this product directly to the +12V. Connect the red wire of this product to the ACC of the ignition key switch and yellow wire to +12V. Failure to do so may result in discharge of the battery.
8. Only supplied accessories should be used to avoid damage to the unit during installation.
9. Ensure that the display monitor is suitably installed at a location, such that it will not obstruct the rear view mirror and/or the air condition vents or operation of a sunroof.
10. Do not install this unit at a declining angle exceeding 30 degrees.
11. Do not install screws over the plane surface, which may affect the LCD screen deployment or retract function.

## ELECTRICAL CONNECTIONS

### Power Cable (4-pin, one pin not used)

Color Code	Function
Black	This wire is the ground source for the monitor and DVD.
Red	Accessory +12V switched power source for the monitor and DVD. This wire supplies the main power to the system (0.5A fuse).
Yellow	Constant +12V power. This wire supplies power to the DVD for last position memory (3A fuse).

### Secondary Power Cable (2-pin)

Color Code	Function
Black	This wire is the ground source for the monitor and DVD.
Red	Accessory +12V switched power source for the monitor and DVD. This wire supplies the main power to the system (0.5A fuse).

### Dome Light Cable (3-pin)

Color Code	Function
Black	This wire supplies the ground to the domelight circuit.
Yellow	This wire supplies +12V constant power to the domelight circuit.
Gray	This wire connects to the (-) door trigger.

## SIGNAL CONNECTIONS

### Adapter Audio

Color Code		Function
Red	1 (RCA)	Audio - Right (Input)
White	1 (RCA)	Audio - Left (Input)
Red	2 (RCA)	Audio - Right (Input)
White	2 (RCA)	Audio - Left (Input)
Red	3 (RCA)	Audio - Right (Output)
White	3 (RCA)	Audio - Left (Output)

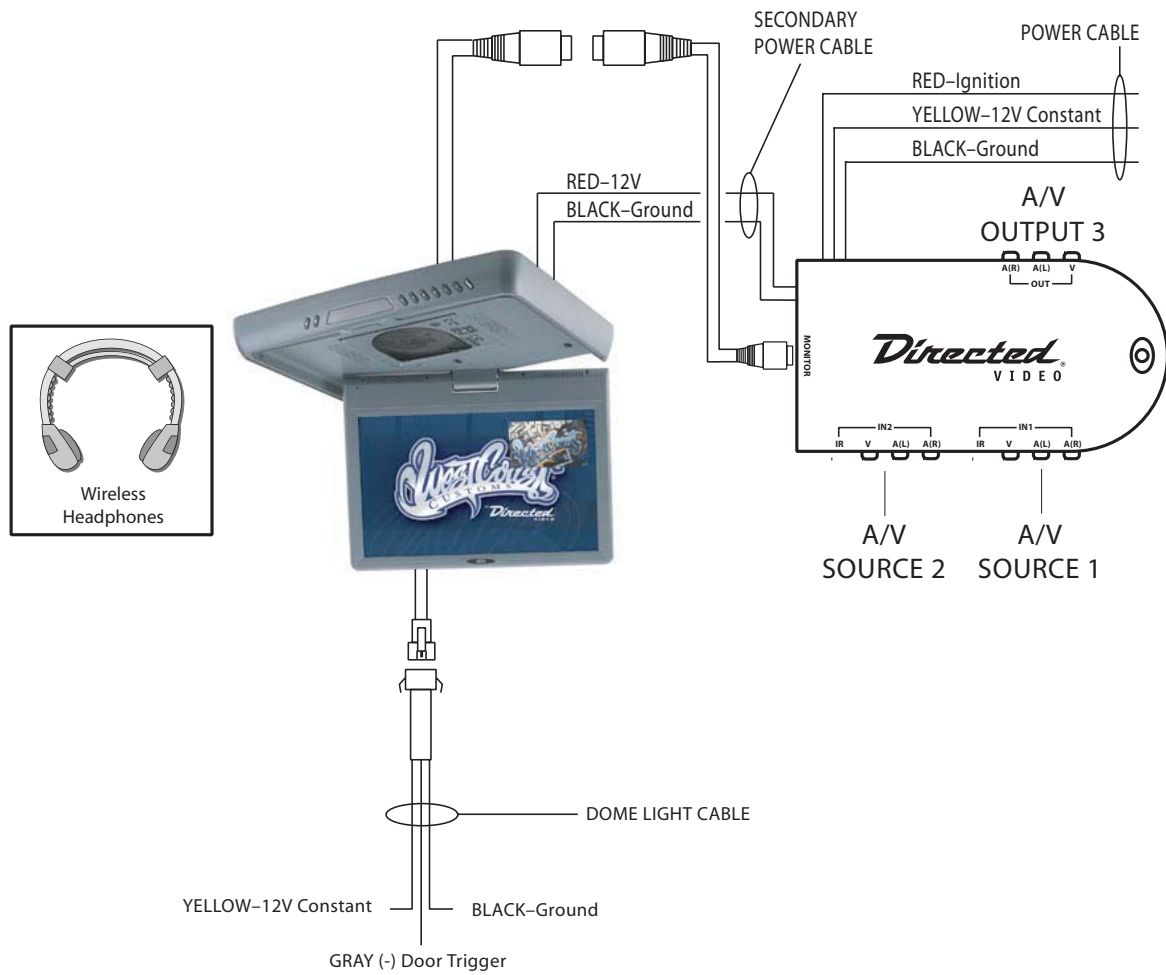
### Adapter Video

Color Code		Function
Yellow	1 (RCA)	Video - In (V-IN 1)
Yellow	2 (RCA)	Video - In (V-IN 2)
Yellow	3 (RCA)	Video - Out (V-OUT 1)

### Adapter IR

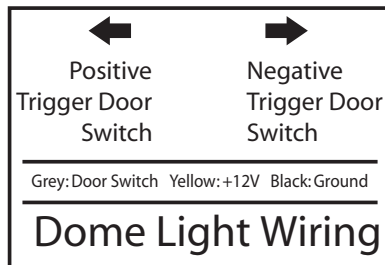
In addition each IN 2 and IN 1 grouping has an IR output jack which passes the remote control commands to the device (VCR, CD player, TV tuner or other devices) connected to this input.

# TYPICAL WIRING DIAGRAM

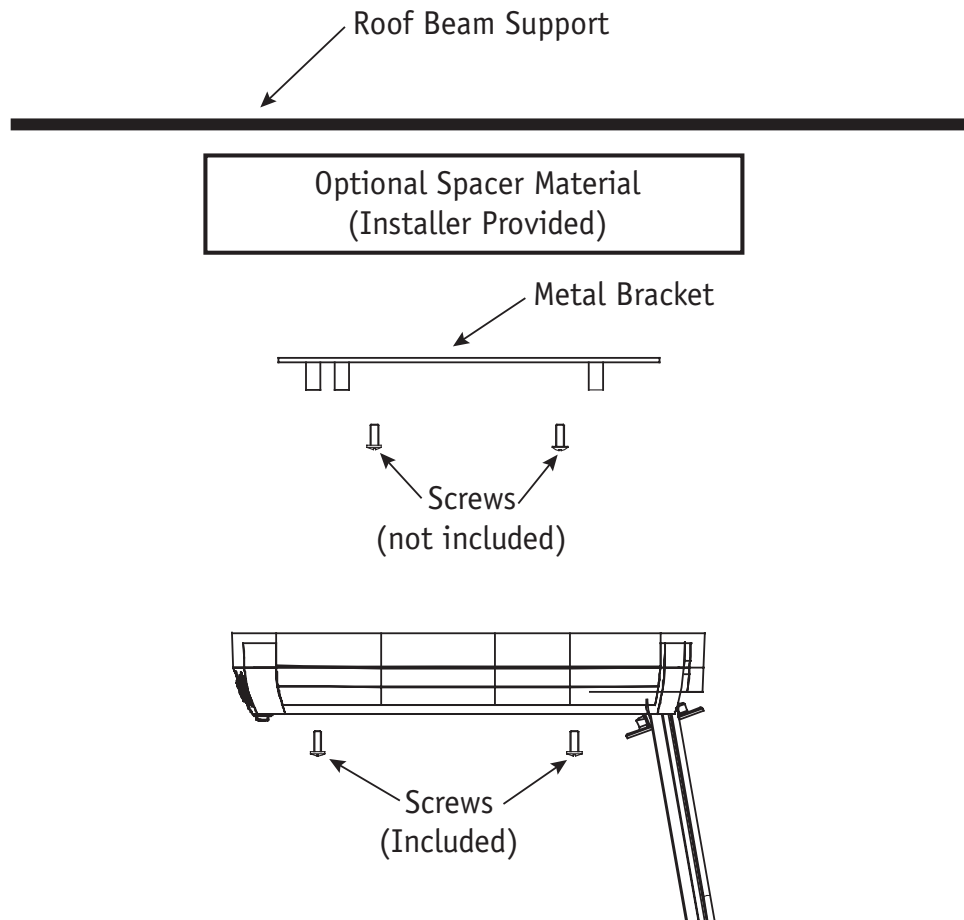


## Installation Procedure

1. Identify the polarity of the dome light circuit and set the switch on the cable connection side of the overhead monitor housing to match the vehicle's door trigger polarity. Factory default position for this switch is Negative. This switch is marked with the following instruction label.



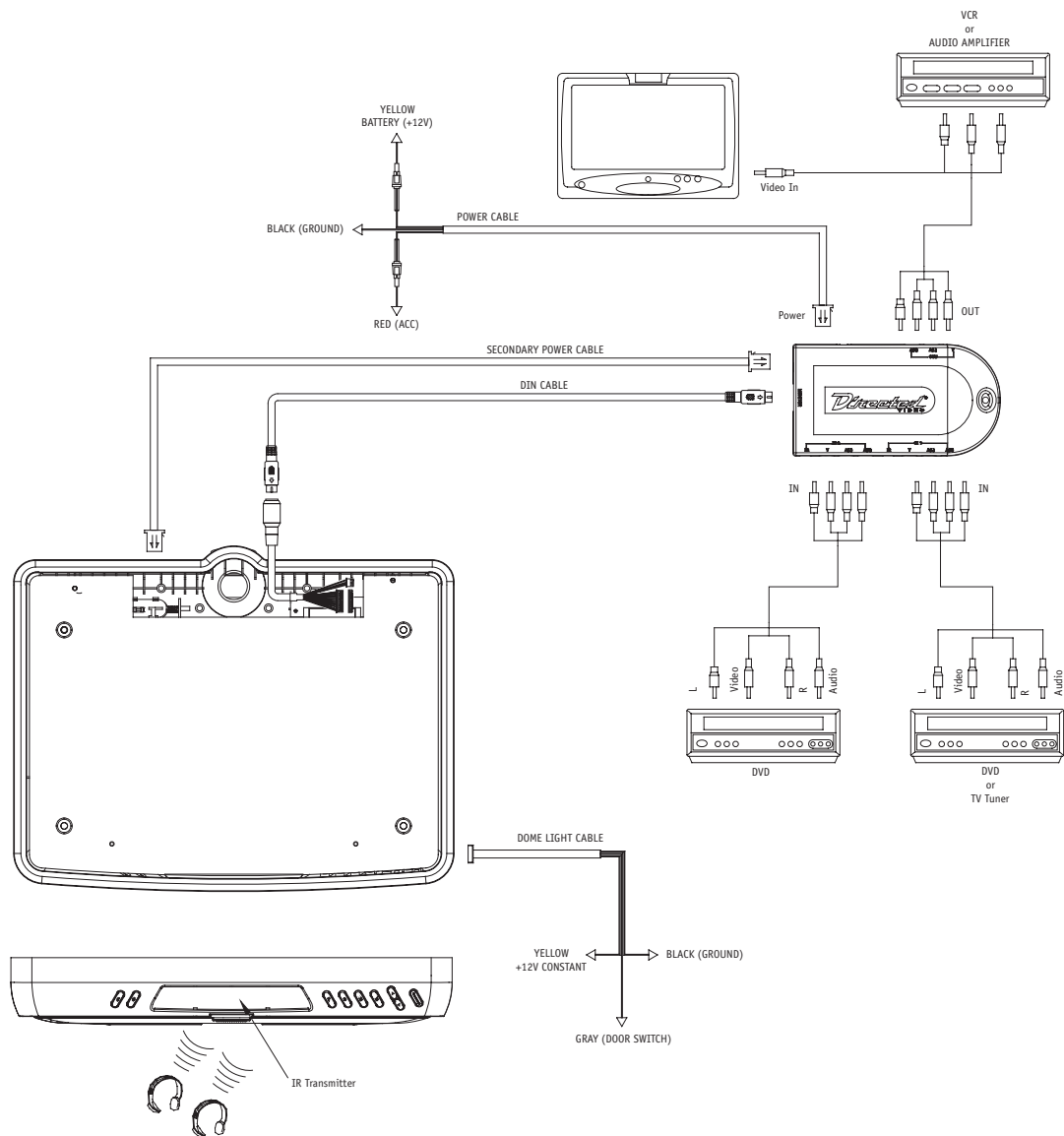
2. Test fit the overhead monitor system on the ceiling of the vehicle, verifying it is not going to interfere with the safe operation of the vehicle and is physically safe for the driver and passenger(s).
3. Once the mounting location of the overhead monitor system has been determined, carefully mark the location with masking tape.
4. Lower the vehicle's headliner down to see if a roof support beam is available to screw the mounting bracket to. If a support beam is not available to screw into, use a  $\frac{3}{4}$ " piece of plywood cut to the appropriate size. Attach the plywood to the roof of the vehicle using silicone allowing adequate drying time before proceeding.
5. Screw the mounting bracket in the vehicle. **DOUBLE CHECK THE LENGTH OF THE SCREWS PRIOR TO MOUNTING THE BRACKET, TO PRECLUDE PENETRATION OF THE VEHICLE'S ROOF.**



6. Cut a 1" hole in the headliner along the backside of the mounting bracket for the cables to pass through.
7. Route cables through the hole to the predetermined location of the AV source(s).
8. Identify the dome light wires in the vehicle and connect them to the corresponding dome light wires on the overhead monitor system. Ensure the domelight switch is in the correct position.
9. Plug in the AV, DIN, dome light and secondary power cables into the overhead monitor system.
10. Carefully hold the overhead monitor system to the mounting bracket aligning the mounting holes while screwing in the screws. (Make sure the wires and cables are not in the way while mounting the monitor).
11. Connect the Secondary Power cable from the monitor to the A/V switch box.
12. Ground the Black wire of the power cable to a clean ground spot.
13. Connect the Yellow wire of the power cable to the battery positive terminal.
14. Connect the Red wire of the power cable to the Accessory wire in the ignition harness.

**NOTE:** Make sure you keep the ground wire of the monitor and video source as short as possible to prevent unwanted audio noise pickup from the vehicle's systems.



# System Wiring Diagram Example



**NOTE:** The Second Power cable must be connected or the unit will not operate and will cause damage to the unit.

# Troubleshooting.....

## No Picture

Press the POWER  and SOURCE buttons (or the  button on the remote) to make sure the monitor is on and the proper input is selected. If there is still no picture press the PICTURE button.

If the DVD menu appears, check the source unit.

If no DVD menu appears, check all fuses and power connections to the model. Inspect the connecting cables for any fraying or breakage.

## No Sound

If acquiring signal from another remote device (e.g. DVD player or CD player) ensure the device is setup correctly.

The DVD player is in pause, slow motion, fast forward, or fast reverse mode. Place player in play mode.

## Picture Rolls

Check that the T.V. type setting is correct for the monitors and DVDs being used. PAL video often rolls on NTSC monitors.

## With a DVD player and a widescreen DVD disc, there are black bars on the screen

Change the TV display mode to "WIDE" in the DVD player's setup menu. After changing this setting, if there are still black bars, press the MODE button on the remote control.

## With a widescreen 16:9 monitor, I have black bars on the screen

Change the TV display mode to "Wide".

**The Remote does NOT Function**

Are there obstacles obstructing the view between the monitor and the remote.

The distance between the remote and monitor is too great.

The remote is not being pointed at the monitor's IR receiver.

The batteries in the remote are weak.

**DISC does NOT Play**

Parental code is set lower than than allowed by the DVD mounted.

Ensure the disk is mounted in the player with the correct orientation (shiny side up).

The disk is warped.

The player cannot play certain formats (see the beginning of this manual).

The region code on the DVD does not match the player.

Moisture condensation has occurred within the player. Leave the unit on and the disc access cover open and try again after about 30 minutes.

The disc has not been properly finalized (formatted) when recorded. Refer to your manual that came with your disc authoring equipment.

**Unit does NOT Display or Operate Correctly**

Press Reset button located on the monitor along side the DVD player. This resets all of the system, except for the Password and Parental Level setting.



# Specifications

System		
Laser	Semiconductor laser	
Signal Formats	NTSC, PAL	
Audio Characteristics		
Frequency Response	DVD Video (PCM@ 96kHz)	20 Hz - 40 kHz $\pm$ 1dB
	DVD Video (PCM@ 48kHz)	20 Hz - 20 kHz $\pm$ 1dB
	CD	20 Hz - 20 kHz $\pm$ 1dB
Signal-to-Noise Ratio	90dB	
Harmonic Distortion	0.01%	
Dynamic Range	DVD Video	95dB
	CD	95dB
Outputs (A/V Switchbox)		
Audio (phono jacks)	2 Vrms	
Video (phono jack)	1 V p-p @75 ohms	
Inputs (A/V Switchbox)		
Audio (phono jacks)	2 Vrms	
Video (phono jack)	1 V p-p	
General		
Power Requirements	14.4 VDC, 4.8 amps	
Power Consumption	69.2 watts	
Dimensions	468 mm x 64 mm x 382 mm (length/height/width)	18.4 in. x 2.5 in. x 15 in. (length/height/width)
Mass	5.8 kg	21.78 lbs
Operating Temperature	0°–50°C	32°–120°F
Operating Humidity	10% to 90%	

**NOTE:** Specifications and design are subject to change without notice.

## **The company behind this system is Directed Electronics.**

Since its inception, Directed has had one purpose, to provide consumers with the finest vehicle security, car stereo products, rear seat entertainment, and accessories available. The recipient of more than 20 patents in the field of advanced electronic technology, Directed is ISO 9001 registered.

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Directed Electronics  
Vista, CA 92081  
[www.directed.com](http://www.directed.com)

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